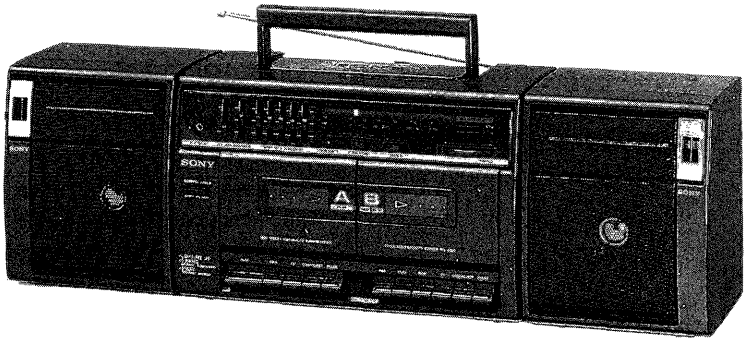
CFS-W320

SERVICE MANUAL

US Model
Canadian Model
E Model



Model Name Using Similar Mechanism		New
Tape Transport Mechanism Type	DECK A	MF-W320 (YMW47-403)
	DECK B	

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven, from 150–10,000 Hz; rated 1.8 W per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

OTHER SPECIFICATIONS

Frequency range	FM: 87.6–108 MHz AM: 530–1,710 kHz
Recording system	4-track 2-channel stereo
Frequency response	80–8,000 Hz
Speakers	Two way Approx. 10 cm (4 inches) dia. woofer x 2 Approx. 2 cm (13/16 inch) dia. tweeter x2
Power output (model for Canada)	2.1 W + 2.1 W (at 10% harmonic distortion) in DC operation
Input	CD/LINE IN jacks (stereo phono jacks) (2) Input impedance 47 kilohms Sensitivity 0.44 V
Output	Headphones jack (stereo minijack) for 8–300-ohm impedance headphones
Power requirements	120 V AC, 60 Hz 9 V DC, six size D (R20) batteries
Battery life	Battery: Sony SUM-1 (NS) — FM recording: Approx. 18 hours Battery: Sony AM1 (N) alkaline — FM recording: Approx. 30 hours
Dimensions	Approx. 605 x 195 x 160 mm (w/h/d) (23-7/8 x 7-3/4 x 6-3/8 inches)
Weight	Approx. 4.5 kg (9 lb 15 oz) incl. batteries
Accessory supplied	AC power cord (1)

Design and specifications subject to change without notice.

RADIO CASSETTE-CORDER

SONY®

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

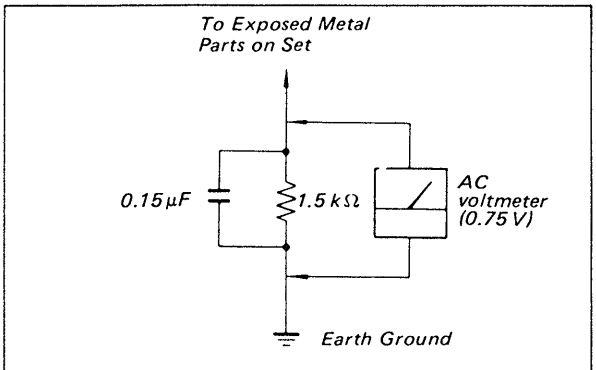
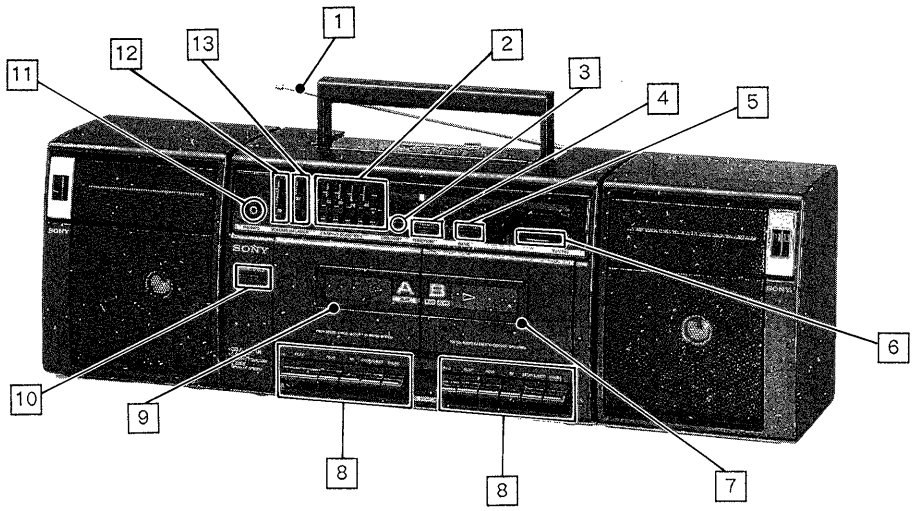


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENERAL

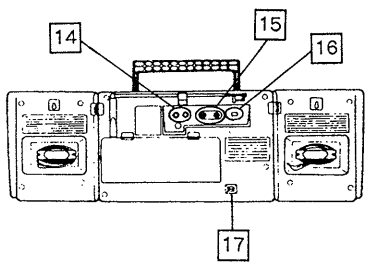
LOCATION AND FUNCTION OF CONTROLS



【FRONT panel】

1 Telescopic antenna
2 5-BAND GRAPHIC EQUALIZER controls
3 OPR/BATT indicator
4 FUNCTION selector
5 BAND selector
6 TUNING knob
7 Cassette holder B
8 Tape operation buttons
- ● REC (record) button : (deck B onlly)
- ▷ PLAY (play back) button
- ◁◁ REW (rewind) button
- ▷▷ FF (farst-forward) button
- ▯⏏ STOP/EJECT button
- ▯▯ PAUSE button

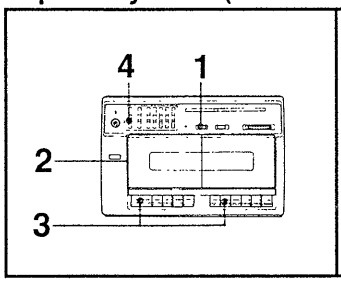
9 Cassette holder A
10 DUBBING SPEED button
11 PHONES (headphones) jack (stereo minijack)
12 VOLUME knob
13 BALANCE knob



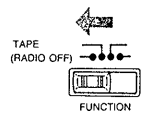
【REAR panel】

14 CD/LINE IN pin-jack
15 SPEAKER (L, R) jack (monoral minijack)
16 ISS (interference supperess switch) /FM MODE selector
17 AC IN

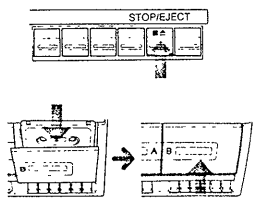
Tape Playback (either deck)



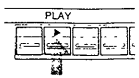
1



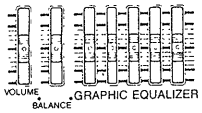
2 Insert a cassette



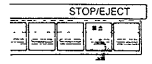
3



4 Adjust VOLUME, BALANCE and GRAPHIC EQUALIZER, if necessary.



To stop playback



To wind tape rapidly	▶▶
To rewind tape rapidly	◀◀
To stop playback/recording	■⏏
To release ▶▶ or ◀◀	■⏏
To pause playback/recording	❚❚

Be sure to press ■⏏ to release ▶▶ or ◀◀ at the tape end.

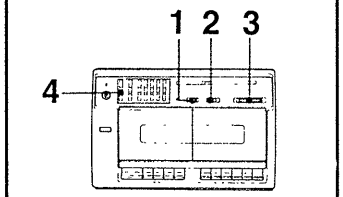
Listening to or recording from other component (CD player, eg.)
Connect the other component to the CD/LINE jacks of this unit with the connecting cord RK-C74A (optional) and set the FUNCTION selector to CD/LINE IN.

Notes
- During playback, avoid pressing the PLAY/REW/FF buttons of the other deck since the playback speed may vary.
- When both decks A and B are in the playback mode, only playback from deck B will be audible.

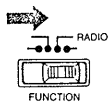
For private listening
Connect stereo headphones to PHONES jack.

When the unit is in use
OPR/BATT (operation/battery) indicator lights. Intensity of glow shows battery level.

Listening to the Radio



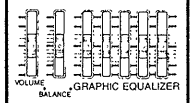
1



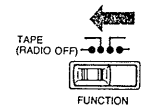
2 Select the desired band.

3 Tune in a desired station.

4 Adjust VOLUME, BALANCE and GRAPHIC EQUALIZER, if necessary.

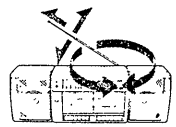


To turn off the radio

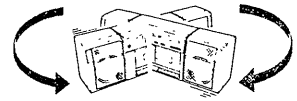


Antenna adjustment

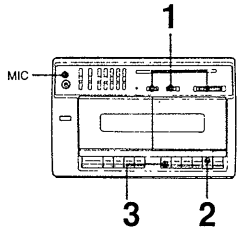
FM



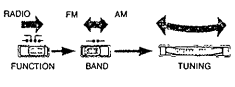
AM



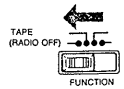
Recording (deck B only)



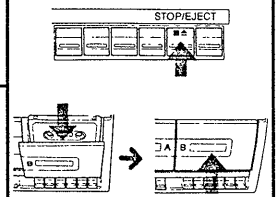
1 From radio



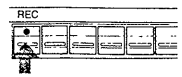
1 From built-in microphone



2 Insert a cassette



3



▶ is pressed automatically.

To stop recording

When the tape reaches the end, ● REC is released automatically.

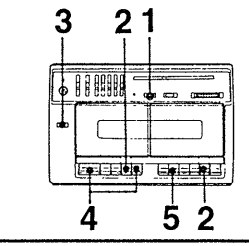
Graphic equalizer adjustments
These are the frequency coverages of the equalizer controls.

100 Hz:	bass.	**1 kHz:**	singing vocals. Boost for increased "presence."
300 Hz:	speaking voice, middle frequencies of instrumental music.	**3 kHz:**	overall brightness of sound.
		10 kHz:	general treble. Lower to reduce noise.

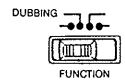
Raise control to emphasize a frequency band, lower to deemphasize.

Notes on recording
- While recording, avoid pressing the PLAY/REW/FF buttons of deck A to assure stable recording.
- If a whistling noise is heard during AM recording, which was inaudible before the record button is depressed, set ISS/FM MODE on the rear panel to 1, 2, or 3, depending on which one best reduces the noise.
- While recording from the built-in radio, you can listen to the program through speakers or headphones. While recording with the built-in microphone, the sound being recorded can be monitored through headphones.
- No recording level adjustment is necessary.

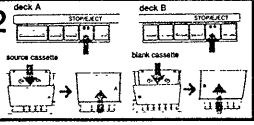
Tape Dubbing (deck A to deck B)



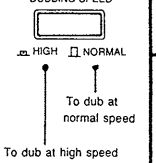
1



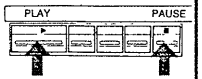
2



3 Select dubbing speed

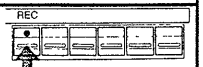


4 on deck A



Depress ▶ and depress ❚❚ at the point you want to start dubbing.

5 on deck B



A and B tapes start simultaneously. This means tape dubbing starts (Synchro dubbing).

To stop dubbing

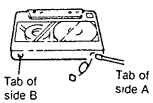
on deck A and deck B

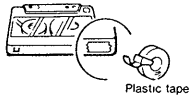
After dubbing, set FUNCTION to TAPE (RADIO OFF).

Notes on dubbing
- If deck A's tape finishes first, deck B will continue playing. (Manually press ■⏏ to release locked buttons).
- If deck B's tape finishes first, deck A will continue playing.
- Do not change the dubbing speed during dubbing. As this causes excessive wow and flutter.

To prevent accidental erasure

To protect side A recording	To reuse a cassette
Break off the tab of side A.	Cover each slot with plastic tape.





This section is extracted from instruction manual.

DIAL POINTER INSTLLATION

1. Insert the pointer end into the clearance Ⓐ between MAIN CHASSIS and WHEEL GEAR to mesh.

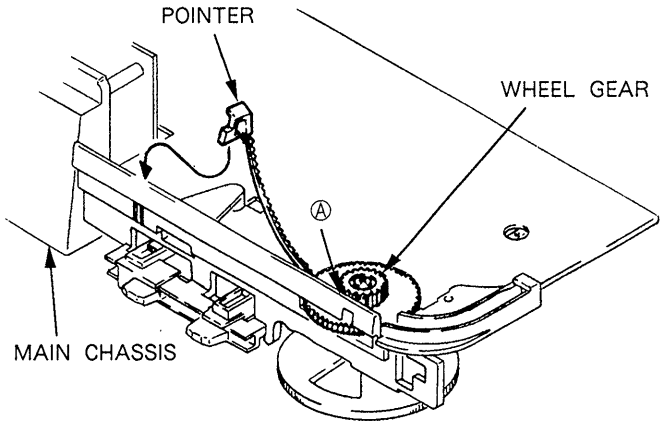


Fig. 1

2. Turn TUNING KNOB so that the end of POINTER (point mark side) comes to the pointer guide.

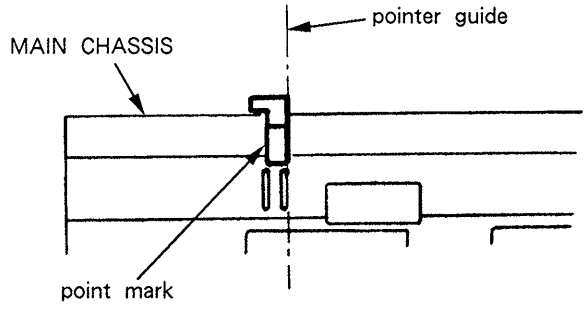


Fig. 2

3. Turn VC fully in the direction of arrow and set WHEEL DRUM to VC as shown on Fig. 3.

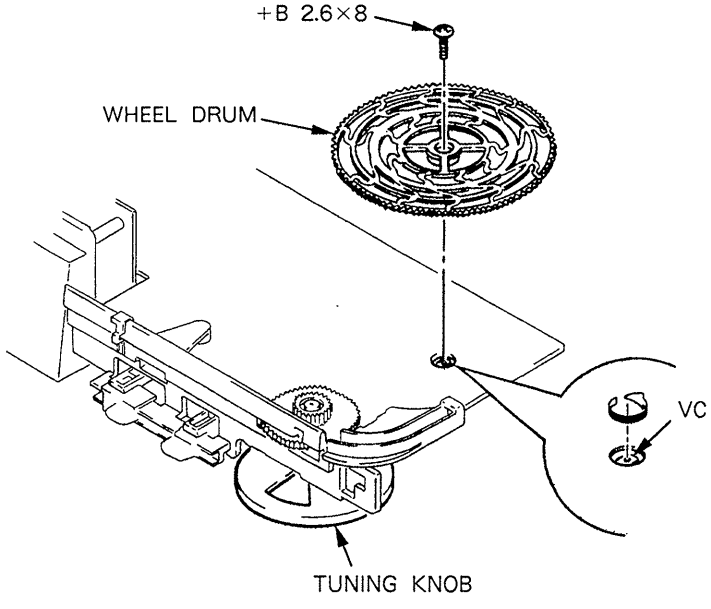


Fig. 3

SECTION 2
ADJUSTMENTS

TAPE SECTION

2-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head　　erase head
   capstan　　rubber belts
   pinch roller
   idlers
2. Demagnetize the head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torgue Measurement　　A-B DECK

Torque	Torque Meter	Meter Reading
Playback	CQ-102C	30-70g · cm (0.42-0.97 oz · inch)
Rewind / Fast Foward	CQ-201B	more than 60g · cm (0.834 oz · inch)
Back Tension	CQ-102C	1.5-6g · cm (0.021-0.083 oz · inch)

Tape Tension Measurement

Meter	Meter Reading
CQ-403A	more than 150g (5.29 oz)

2-2. ELECTRICAL ADJUSTMENTS

Note : The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
  FUNCTION : TAPE (RADIO OFF)
  VOLUME : standerd output
  BALANCE : mechanical mid
  GRAPHIC EQUALIZER : mechanical mid
- Standard Output Level

Output Terminal	PHONES	Speakers
load impedance	32 Ω	3.2 Ω
output level	0.25V (-10dB)	0.775V (0dB)

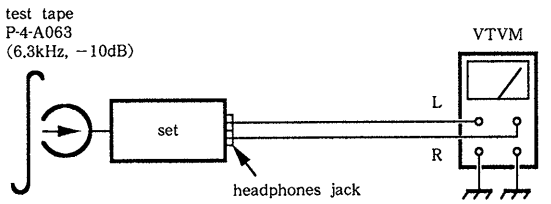
Test tape :

Type	Signal	Used for
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-A063	6.3kHz, -10dB	Azimuth Adjustment
P-4 L300	315Hz, 0dB	Level Adjustment

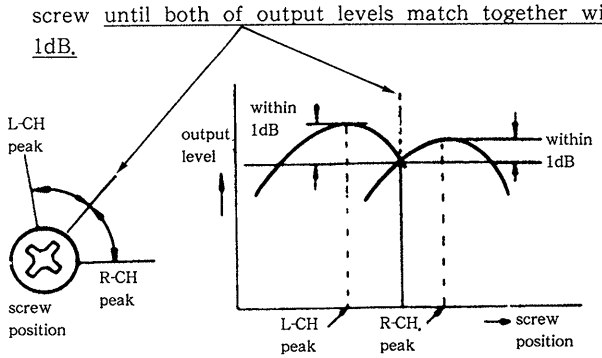
Record/playback Head Azimuth Adjustment　　DECK A　DECK B

Procedure :

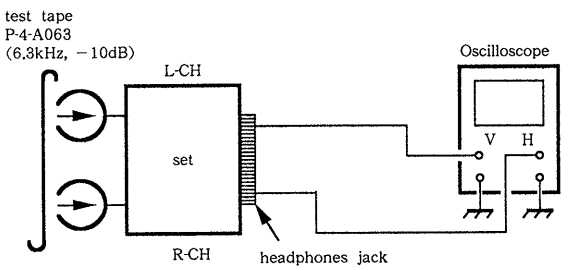
1. Mode : FWD playback

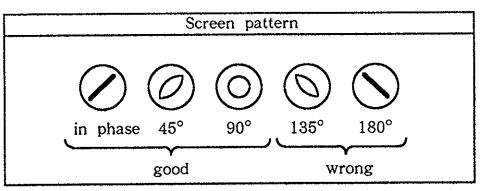


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



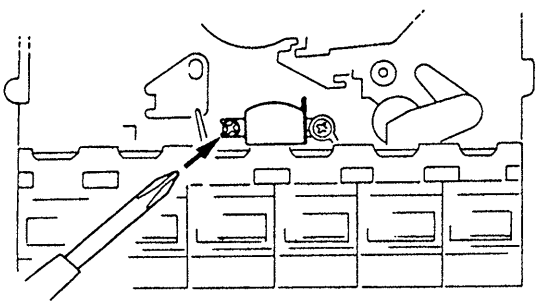
Phase Check
Mode : playback





3. Set in the reverse mode and repeat the steps 1-2.
4. After the adjustment, lock the screws with locking compound.

Adjustment Location : Remove the Front Cabinet Assy

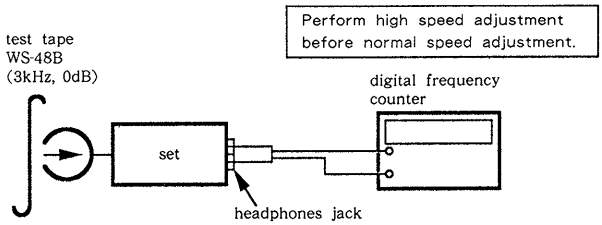


Tape Speed Adjustment

DECK A | DECK B

Procedure :

Mode : playback

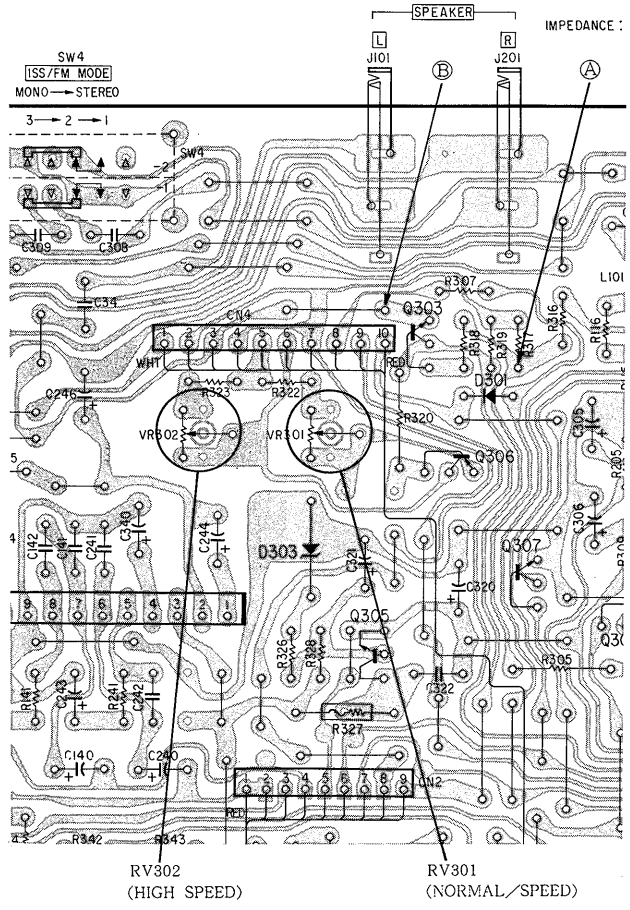


Connect point Ⓐ and Ⓑ with lead wire.
(It results in HIGH SPEED mode.)

Specifications :

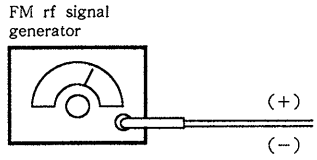
	Adjustment part	Adjust point	Digital frequency counter
High speed	Deck B VR302	Ⓐ – Ⓑ SHORT	5,990 to 6,010Hz
	Deck A confirm		
Normal speed	Deck B VR301	Ⓐ – Ⓑ OPEN	2,990 to 3,010Hz
	Deck A confirm		

Adjustment Location : Main board



RADIO SECTION

FM Section



22.5kHz frequency deviation by 400Hz signal
Output level : as low as possible

FM SECTION

FM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T1	10.7MHz
T3	10.7MHz

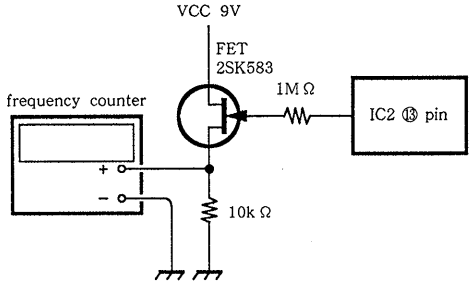
FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
FC1	109.5MHz
L2	86.5MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
FC2	109.5MHz
L1	86.5MHz

VCO Adjustment

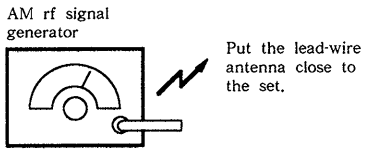
Procedure :

Carrier frequency : 98MHz
Modulation : no modulation
Output level : 562 μ V (55dB)

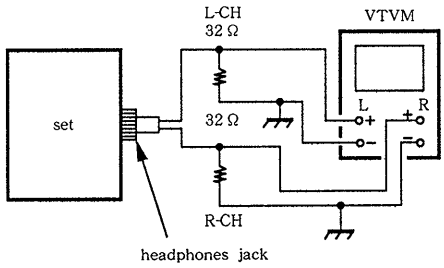


1. Connect frequency counter to IC2 ⑬ pin using left circuit.
2. Tune the set to 98MHz.
3. FM MODE SWITCH (SW4) should be set STEREO positions.
4. Adjust VR1 for 76kHz±0.2kHz reading on the frequency counter.

AM Section



30% amplitude modulation by 400Hz signal
Output level : as low as possible



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

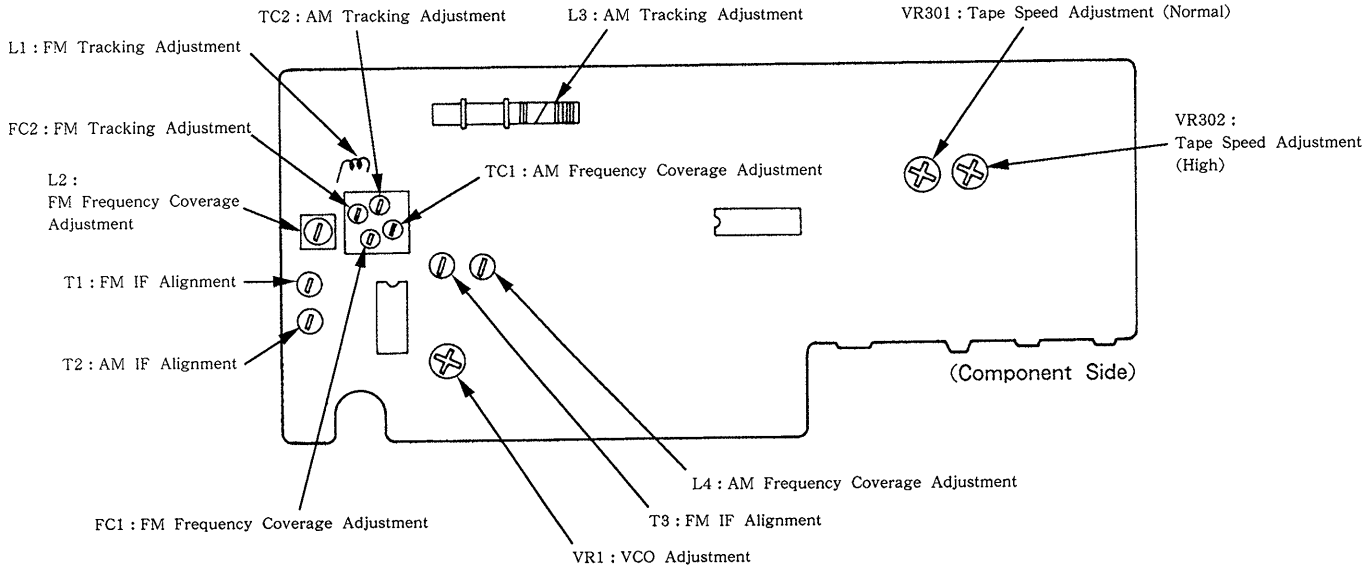
AM SECTION

AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T2	455kHz

AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
TC1	1,780kHz
L4	515kHz

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
TC2	1,400kHz
L3	620kHz

Adjustment Location : main board


TC2 : AM Tracking Adjustment
L3 : AM Tracking Adjustment
VR301 : Tape Speed Adjustment (Normal)
L1 : FM Tracking Adjustment
FC2 : FM Tracking Adjustment
L2 : FM Frequency Coverage Adjustment
TC1 : AM Frequency Coverage Adjustment
VR302 : Tape Speed Adjustment (High)
T1 : FM IF Alignment
T2 : AM IF Alignment
(Component Side)
L4 : AM Frequency Coverage Adjustment
FC1 : FM Frequency Coverage Adjustment
T3 : FM IF Alignment
VR1 : VCO Adjustment

SECTION 3
DIAGRAMS

3-1. SEMICONDUCTOR LEAD LAYOUTS

BA3308
TA7358

GL-3PR9

BA3822LS

KDS2236
RD6.8FB2
10E2
1S2472

DTA114ES
DTC114ES

1S202-1

2SA733-K
2SC2001-K2
2SC2878-B

KTC9013

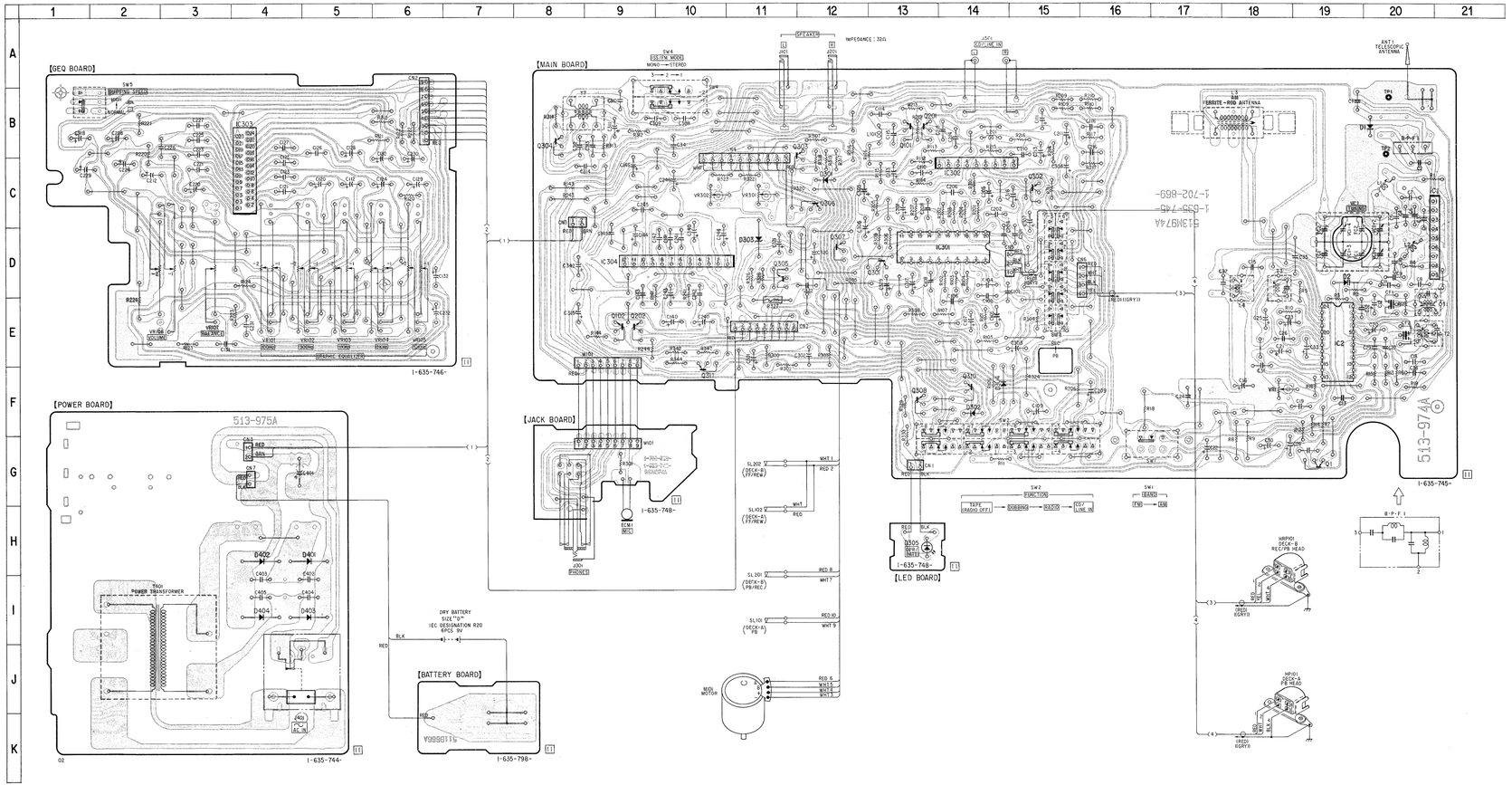
• SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	B-20
D2	D-19
D301	C-12
D302	F-14
D303	D-11
D304	F-14
D305	H-13
D401	H-5
D402	H-4
D403	I-5
D404	I-4
IC1	D-21
IC2	E-19
IC301	D-14
IC302	C-14
IC303	C-4
IC304	D-10
Q1	G-19
Q101	B-13
Q102	E-9
Q201	B-13
Q202	E-9
Q301	D-13
Q302	C-15
Q303	B-12
Q304	B-8
Q305	D-11
Q306	C-12
Q307	D-12
Q308	F-13
Q310	F-14
Q311	F-10

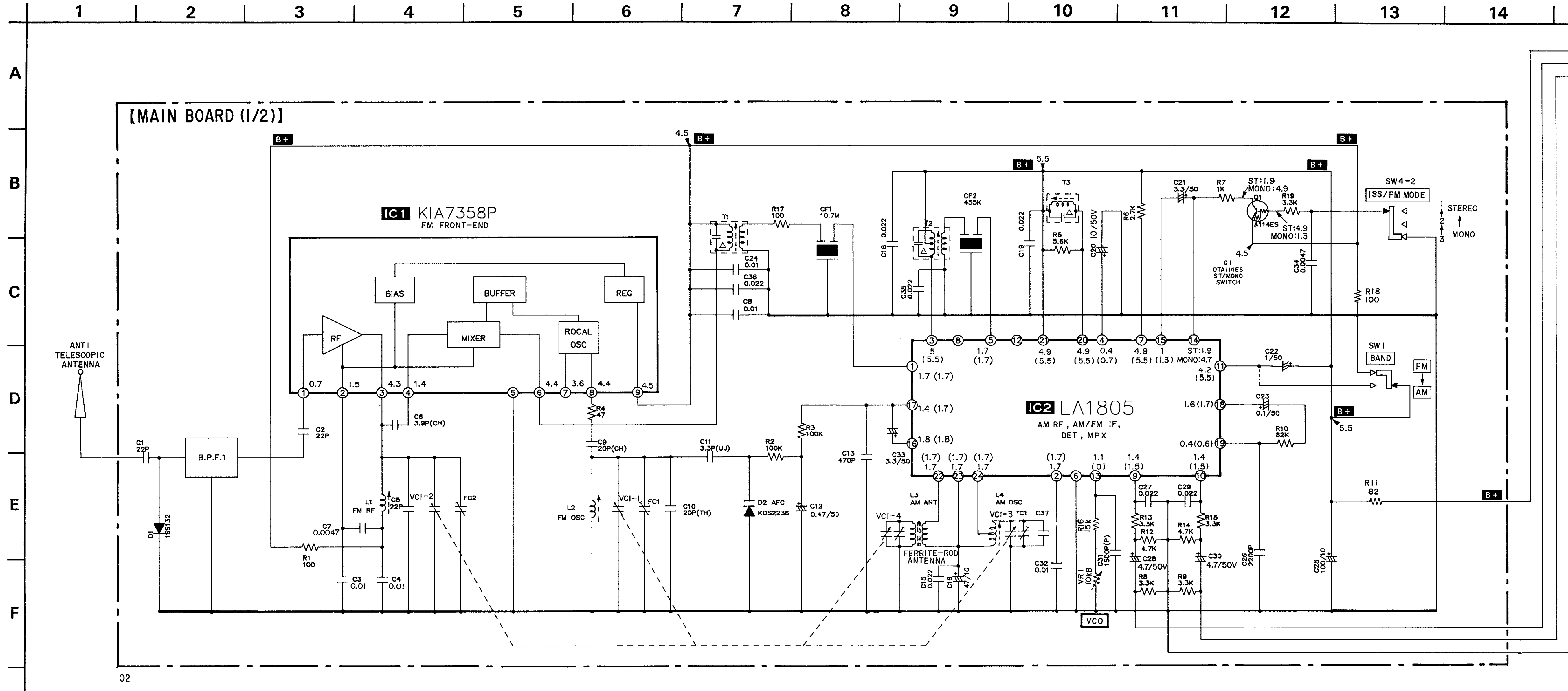
Note :

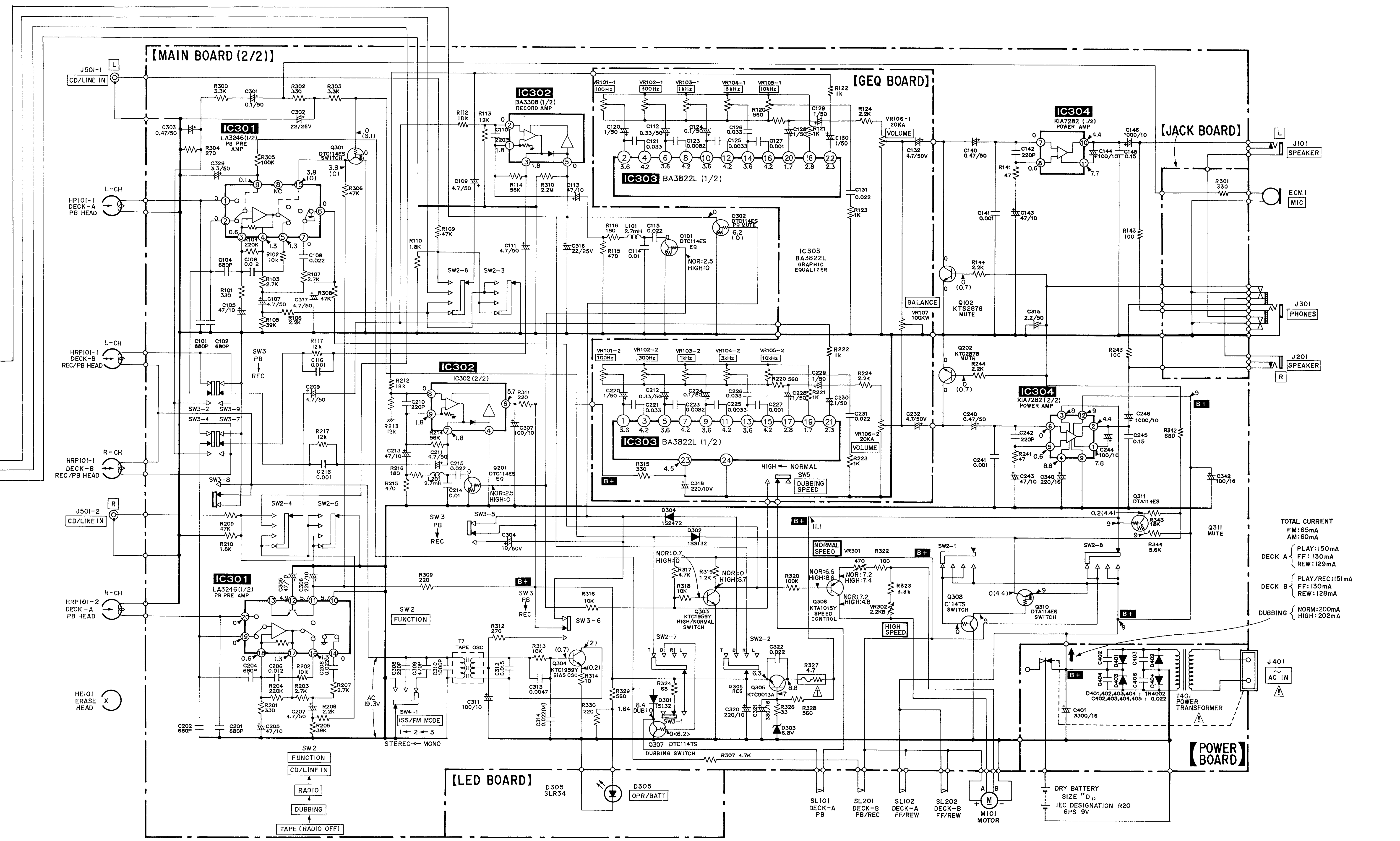
- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

3-2. PRINTED WIRING BOARDS



3-3. SCHEMATIC DIAGRAM





Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- [fusible resistor symbol] : fusible resistor.

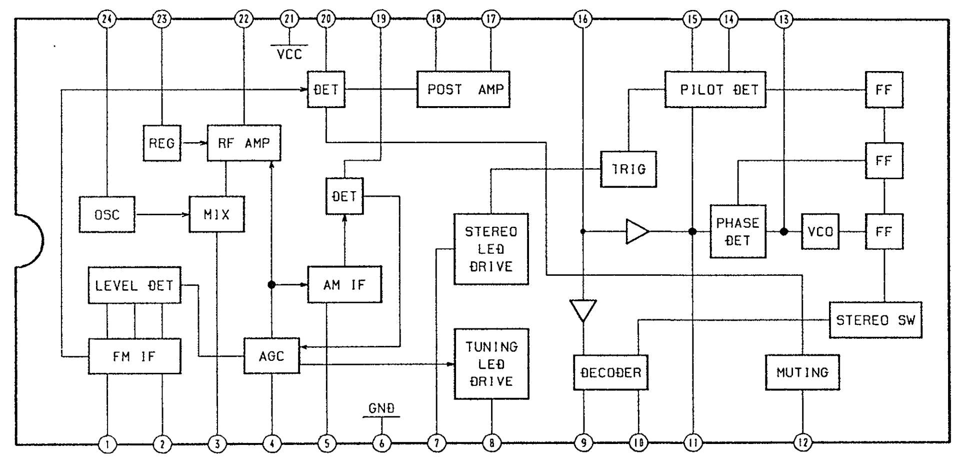
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- [ ] : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 9V and fed with regulated dc power supply from external power voltage jack.

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM (RADIO SECTION)
  Playback (AUDIO SECTION)
- ( ) : AM (RADIO SECTION)
  REC (AUDIO SECTION)
- 〈 〉 : DUBBING
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - ⇨ : FM
  - ⇨ : PB (DECK A)
  - ⇨ : PB (DECK B)
  - ⇨ : REC (DECK B)

• IC BLOCK DIAGRAM

IC2 LA1805



SECTION 4
EXPLODED VIEWS

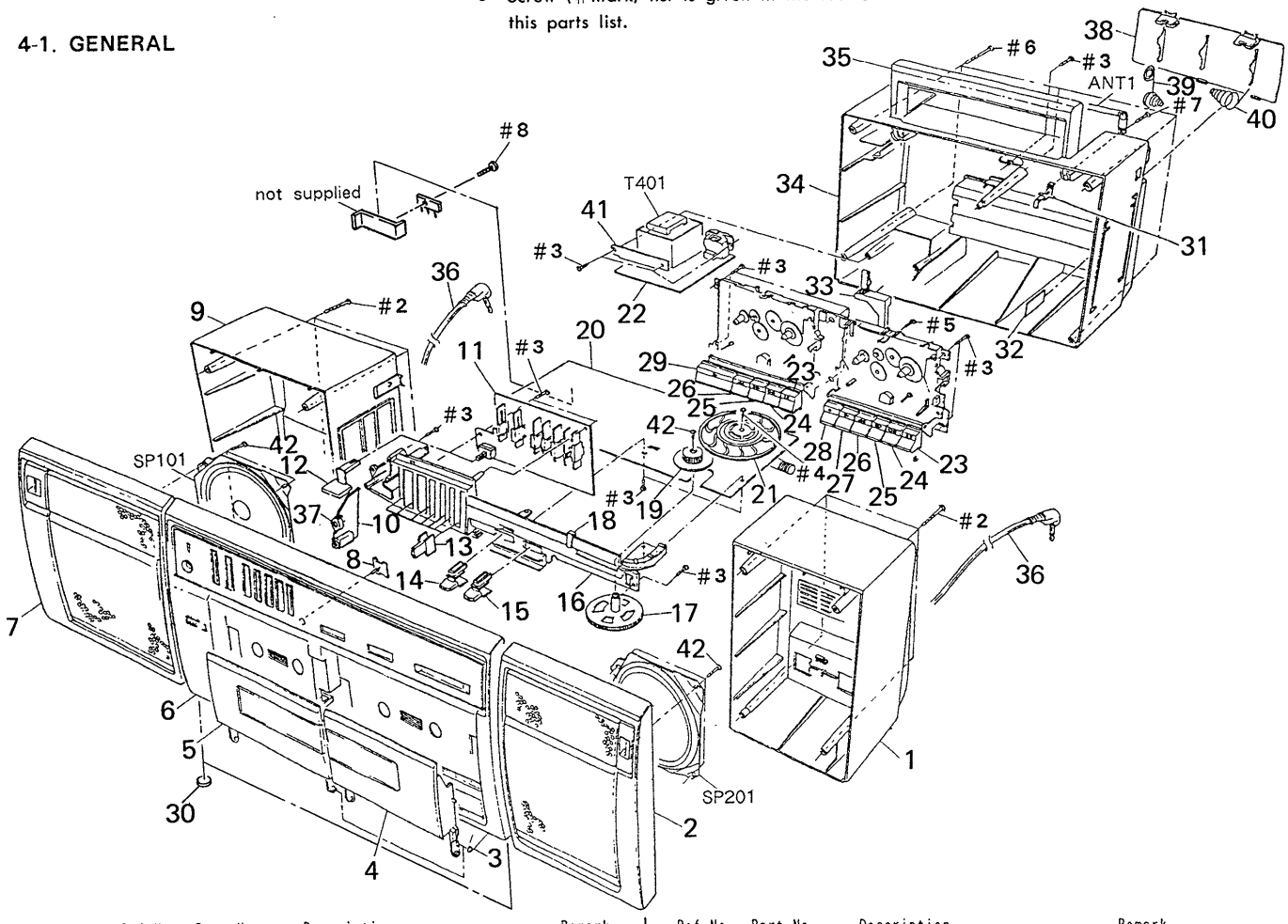
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts' Color Cabinet's Color
- Screw (#mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

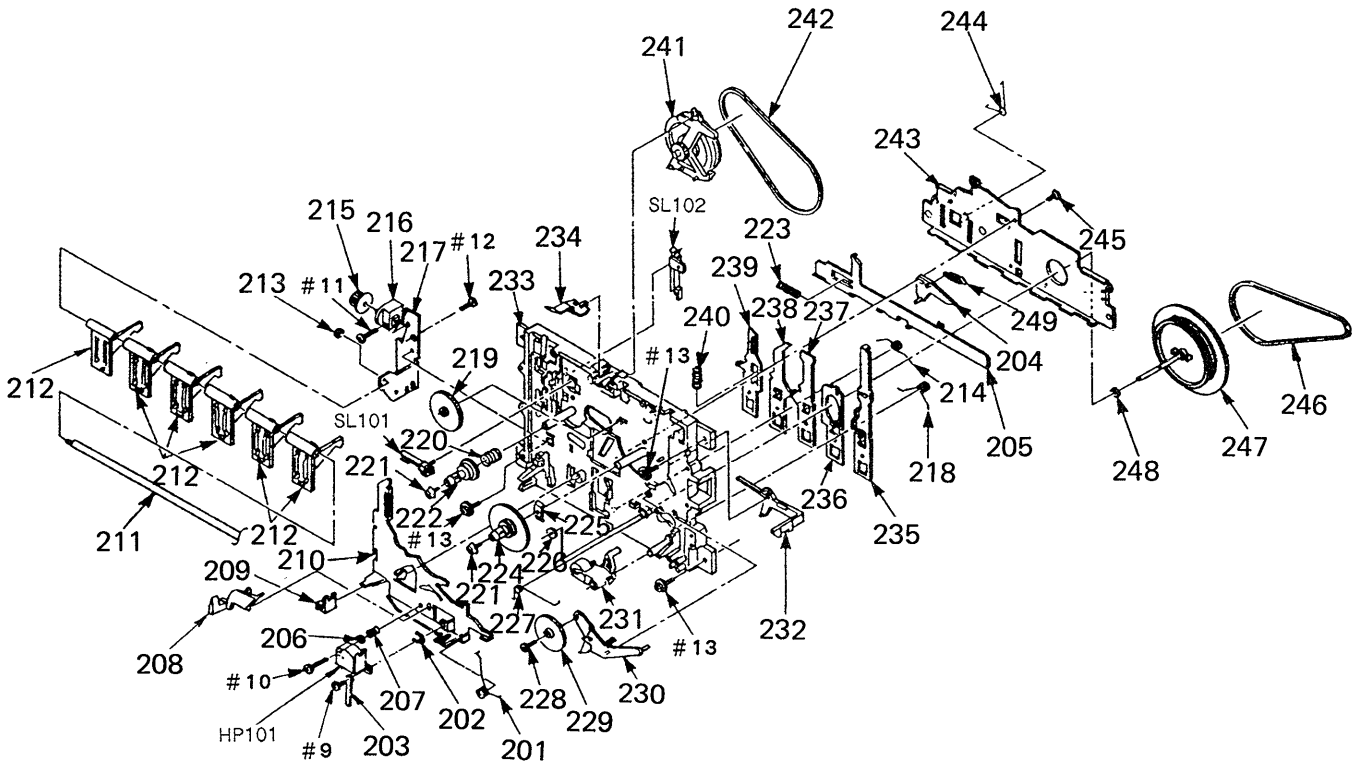
4-1. GENERAL



Ref. No.	Part No.	Description	Remark
1	3-393-888-01	SPEAKER REAR-R	
2	X-3391-053-1	SPEAKER FRONT (R) ASSY	
3	3-393-892-01	EJECT SPRING	
4	X-3391-051-1	HOLDER (B) ASSY, CASSETE	
5	X-3391-050-1	HOLDER (A) ASSY, CASSETE	
6	X-3391-049-1	CABINET (FRONT) ASSY	
7	X-3391-052-1	SPEAKER FRONT (L) ASSY	
8	* 1-635-747-11	LED BOARD	
9	3-393-890-01	SPEAKER REAR-L	
10	* 1-635-748-11	JACK BOARD	
11	* 1-635-746-11	GEQ BOARD	
12	3-397-823-01	KNOB DUBBING	
13	3-397-816-01	KNOB VOL/EQ	
14	3-397-818-01	KNOB FUNCTION	
15	3-397-817-01	KNOB BAND	
16	* 3-397-815-01	CHASSIS, MAIN	
17	3-397-819-01	KNOB TUNING	
18	3-397-822-01	GEAR POINTER	
19	3-397-820-01	GEAR TUNING	
20	* A-3261-215-A	MAIN BOARD, COMPLETE	
21	3-397-821-01	GEAR PULLEY	
22	* 1-635-744-11	POWER BOARD	
23	3-397-805-01	KNOB DECK PAUSE	

Ref. No.	Part No.	Description	Remark
24	3-397-804-01	KNOB DECK ST/EJ	
25	3-397-802-01	KNOB DECK FF	
26	3-397-803-01	KNOB DECK REW	
27	3-393-899-01	KNOB DECK PLAY-R (B)	
28	3-397-801-01	KNOB DECK REC	
29	3-393-898-01	KNOB DECK PLAY-L (A)	
30	3-366-762-01	CUSHION (FOOT-RUBBER)	
31	* 3-397-810-01	ANT LUG	
32	1-635-798-11	BATTERY BOARD	
33	3-397-806-01	LEVER REC	
34	3-362-042-01	CABINET (REAR) ••• (Canadian, E)	
34	3-397-808-01	CABINET (REAR) ••• (US)	
35	3-397-809-01	HANDLE	
36	1-575-951-11	CORD, SPEAKER	
37	3-321-122-01	CUSHION, MICROPHONE	
38	3-397-814-01	LID, BATTERY CASE	
39	3-397-812-01	BATTERY SPRING (+/-)	
40	3-397-813-01	BATTERY SPRING (-)	
41	3-397-811-01	HOLDER P/T	
42	3-703-135-01	SCREW, TAPPING +PWH 3X8	
ANT1	1-501-482-11	ANTENNA, TELESCOPIC	
SP101	1-503-492-11	SPEAKER	
SP201	1-503-492-11	SPEAKER	
T401	⚠ 1-448-781-01	TRANSFORMER, POWER	

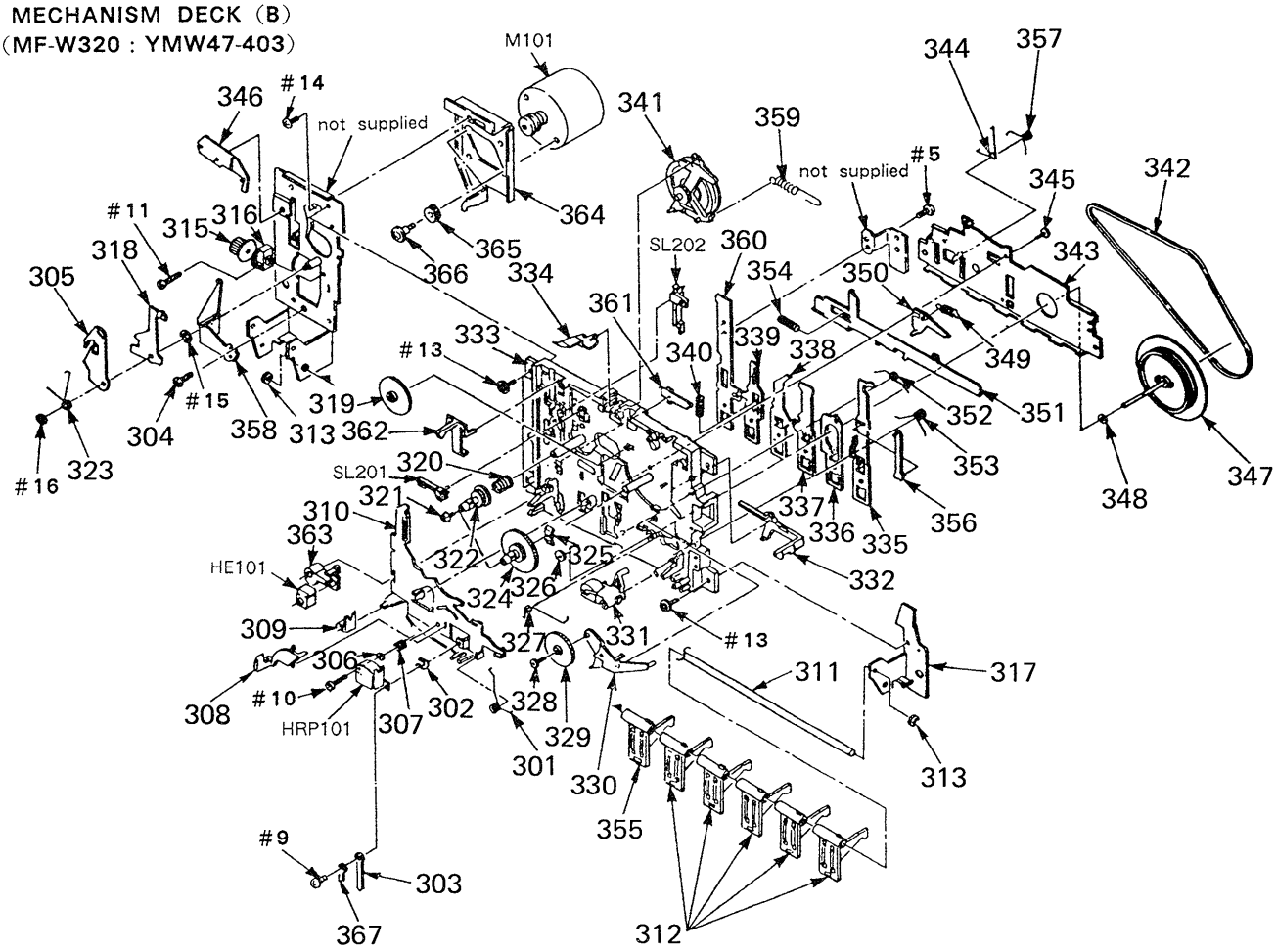
4-2. MECHANISM DECK (A)
(MF-W320 : YMW47-403)



No.	Part No.	Description	Remarks
201	3-391-078-01	PINCH SPRING	
202	3-390-821-01	SPACER	
203	*3-390-819-01	LUG	
204	4-894-982-01	S ARM	
205	*4-894-984-01	FUNCTION LEVER	
206	3-390-823-01	WASHER, F	
207	4-894-955-01	C SPRING	
208	4-894-956-01	TAPE SENSOR	
209	4-895-016-01	TAPE GUIDE	
210	*4-895-015-01	HEAD BASE	
211	*3-391-080-01	SHAFT C (A DECK)	
212	3-349-134-01	BASE, BUTTON	
213	3-391-079-01	E RING	
214	4-894-989-01	SPRING	
215	3-390-844-01	GEAR	
216	3-390-843-01	HOLDER, GEAR	
217	*3-391-082-01	HOLDER BUTTON L	
218	4-894-999-01	SPRING	
219	4-894-964-01	F GEAR	
220	4-894-954-01	C SPRING	
221	3-390-803-01	BUSHING (D)	
222	4-894-953-01	S REEL	
223	4-894-983-01	C SPRING	
224	X-3391-004-1	T REEL ASSY	
225	3-390-838-01	T SPRING	
226	4-894-969-01	N WASHER	
227	4-894-967-01	SPRING	
228	4-894-960-01	BUSH	

No.	Part No.	Description	Remarks
229	4-894-961-01	IDLER GEAR	
230	4-894-962-01	IDLER ARM	
231	X-3391-001-1	PINCH ARM ASSY	
232	4-894-980-01	EJECT ARM	
233	4-894-968-01	CHASSIS ASSY	
234	4-894-966-01	SPRING	
235	4-895-011-01	PAUSE LEVER W	
236	*4-894-987-01	S.E LEVER	
237	*4-894-988-01	FF LEVER W	
238	*4-894-990-01	REW LEVER	
239	*3-391-053-01	PLAY LEVER	
240	3-390-827-01	SPRING	
241	X-3391-003-1	POWER ARM ASSY	
242	3-390-816-01	BELT, SQUARE	
243	*4-894-977-01	BACK PLATE	
244	4-894-978-01	SPRING	
245	3-390-822-01	BUSHING (C)	
246	3-396-796-01	BELT	
247	X-3391-002-1	FLYWHEEL ASSY	
248	4-894-976-01	P WASHER	
249	3-390-809-01	SPRING	
HP101	1-543-727-11	HEAD (PLAYBACK)	
SL101	1-571-555-11	SWITCH, LEAF (DECK-A PB)	
SL102	1-570-715-11	SWITCH, LEAF (DECK-A FF/REW)	

4-3. MECHANISM DECK (B)
(MF-W320 : YMW47-403)



No.	Part No.	Description	Remarks
301	3-391-078-01	PINCH SPRING	
302	3-390-821-01	SPACER	
303	*3-390-819-01	LUG	
304	3-682-147-31	SCREW (BVTT WH 2.6X4)	
305	4-895-004-01	LOCK PLATE	
306	3-390-823-01	WASHER, F	
307	4-894-955-01	C SPRING	
308	4-894-956-01	TAPE SENSOR	
309	4-895-016-01	TAPE GUIDE	
310	*4-895-015-01	HEAD BASE	
311	*3-393-881-01	SHAFT (B DECK)	
312	3-349-134-01	BASE, BUTTON	
313	3-391-079-01	E RING	
315	3-390-844-01	GEAR	
316	3-390-843-01	HOLDER, GEAR	
317	*3-391-081-01	HOLDER BUTTON R	
318	4-895-005-01	UNLOCK PLATE	
319	4-894-964-01	F GEAR	
320	4-894-954-01	C SPRING	
321	3-390-803-01	BUSHING (D)	
322	4-894-953-01	S REEL	
323	4-895-003-01	SPRING	
324	X-3391-004-1	T REEL ASSY	
325	3-390-838-01	T SPRING	
326	4-894-969-01	N WASHER	
327	4-894-967-01	SPRING	
328	4-894-960-01	BUSH	
329	4-894-961-01	IDLER GEAR	
330	4-894-962-01	IDLER ARM	
331	X-3391-001-1	PINCH ARM ASSY	
332	4-894-980-01	EJECT ARM	
333	4-894-968-01	CHASSIS ASSY	
334	4-894-966-01	SPRING	
335	*4-894-986-01	PAUSE LEVER	
336	*4-894-987-01	S.E LEVER	

No.	Part No.	Description	Remarks
337	*4-894-988-01	FF LEVER W	
338	*4-894-990-01	REW LEVER	
339	*3-391-053-01	PLAY LEVER	
340	3-390-827-01	SPRING	
341	X-3391-003-1	POWER ARM ASSY	
342	3-393-880-01	BELT	
343	*4-894-977-01	BACK PLATE	
344	4-894-979-01	SPRING	
345	3-390-822-01	BUSHING (C)	
346	4-895-002-01	P CONNECT LEVER ASSY	
347	X-3391-002-1	FLYWHEEL ASSY	
348	4-894-976-01	P WASHER	
349	3-390-809-01	SPRING	
350	4-894-982-01	S ARM	
351	*4-894-984-01	FUNCTION LEVER	
352	4-894-989-01	SPRING	
353	4-894-999-01	SPRING	
354	4-894-983-01	C SPRING	
355	3-392-147-01	LEVER (R), BUTTON	
356	4-894-985-01	PAUSE ARM	
357	3-393-883-01	SPRING	
358	4-895-006-01	CONNECT LEVER	
359	3-396-831-01	SPRING	
360	*4-894-994-01	REC LEVER	
361	*3-390-811-01	LEVER, REC STOP	
362	4-894-958-01	INTERLOCK ARM	
363	3-391-055-01	E HEAD ARM	
364	*4-895-008-01	MOTOR BRACKET	
365	3-343-897-01	WASHER, RUBBER	
366	3-343-896-01	SCREW, MOTOR	
367	3-390-817-01	LUG	
HE101	1-543-533-11	HEAD, ERESE	
HRP101	1-543-727-11	HEAD (RECORD/PLAYBACK)	
M101	3-393-882-01	MOTOR ASSY	
SL201	1-571-555-11	SWITCH, LEAF (DECK-B PB/REC)	
SL202	1-570-715-11	SWITCH, LEAF (DECK-B FF/REW)	

BATTERY GEQ

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description		Remark
	1-635-798-11	BATTERY BOARD		
		**********		
**********				
*	1-635-746-11	GEQ BOARD		
		*********		
		< CAPACITOR >		
C112	1-124-252-00	ELECT	0.33uF 20% 50V	
C120	1-124-791-11	ELECT	1.0uF 20% 100V	
C121	1-130-489-00	MYLAR	0.033uF 5% 50V	
C123	1-161-050-00	CERAMIC	0.0082uF 10% 25V	
C124	1-124-463-00	ELECT	0.1uF 20% 50V	
C125	1-161-327-00	CERAMIC	0.0033uF 30% 16V	
C126	1-130-489-00	MYLAR	0.033uF 5% 50V	
C127	1-162-294-31	CERAMIC	0.001uF 10% 50V	
C128	1-124-791-11	ELECT	1.0uF 20% 100V	
C129	1-124-791-11	ELECT	1.0uF 20% 100V	
C130	1-124-791-11	ELECT	1.0uF 20% 100V	
C131	1-161-494-00	CERAMIC	0.022uF 25V	
C132	1-124-927-11	ELECT	4.7uF 20% 100V	
C212	1-124-252-00	ELECT	0.33uF 20% 50V	
C220	1-124-791-11	ELECT	1.0uF 20% 100V	
C221	1-130-489-00	MYLAR	0.033uF 5% 50V	
C223	1-161-050-00	CERAMIC	0.0082uF 10% 25V	
C224	1-124-463-00	ELECT	0.1uF 20% 50V	
C225	1-161-327-00	CERAMIC	0.0033uF 30% 16V	
C226	1-130-489-00	MYLAR	0.033uF 5% 50V	
C227	1-162-294-31	CERAMIC	0.001uF 10% 50V	
C228	1-124-791-11	ELECT	1.0uF 20% 100V	
C229	1-124-791-11	ELECT	1.0uF 20% 100V	
C230	1-124-791-11	ELECT	1.0uF 20% 100V	
C231	1-161-494-00	CERAMIC	0.022uF 25V	
C232	1-124-927-11	ELECT	4.7uF 20% 100V	
C318	1-126-176-11	ELECT	220uF 20% 10V	
		< IC >		
IC303	8-759-933-38	IC BA3822LS		
		< RESISTOR >		
R120	1-249-414-11	CARBON	560 5% 1/4W	
R121	1-249-417-11	CARBON	1K 5% 1/4W	
R122	1-249-417-11	CARBON	1K 5% 1/4W	
R123	1-249-417-11	CARBON	1K 5% 1/4W	
R124	1-249-421-11	CARBON	2.2K 5% 1/4W	
R220	1-249-414-11	CARBON	560 5% 1/4W	
R221	1-249-417-11	CARBON	1K 5% 1/4W	
R222	1-249-417-11	CARBON	1K 5% 1/4W	
R223	1-249-417-11	CARBON	1K 5% 1/4W	
R224	1-249-421-11	CARBON	2.2K 5% 1/4W	
R315	1-249-411-11	CARBON	330 5% 1/4W	
		< SWITCH >		
SW5	1-572-423-11	SWITCH, PUSH (DUBBING SPEED)		
		< VARIABLE RESISTOR >		
VR101	1-241-173-11	RES, VAR, SLIDE 100K/100K (100Hz)		
VR102	1-241-173-11	RES, VAR, SLIDE 100K/100K (300Hz)		
VR103	1-241-173-11	RES, VAR, SLIDE 100K/100K (1KHz)		
VR104	1-241-173-11	RES, VAR, SLIDE 100K/100K (3KHz)		
VR105	1-241-173-11	RES, VAR, SLIDE 100K/100K (10KHz)		
VR106	1-241-172-11	RES, VAR, SLIDE 20K/20K (VOLUME)		
VR107	1-241-171-11	RES, VAR, SLIDE 100K (BALANCE)		
**********				

JACK LED MAIN

Ref.No.	Part No.	Description	Remark
*	1-635-748-11	JACK BOARD	
		**********	
	3-321-122-01	CUSHION, MICROPHONE	
ECM1	1-542-157-11	MICROPHONE, ELECTRET CONDENSER (MIC)	
		< JACK >	
J301	1-562-837-11	JACK (PHONES)	
		< RESISTOR >	
R301	1-249-411-11	CARBON 330 5% 1/4W	
*	1-635-747-11	LED BOARD	
		*********	
		< DIODE >	
D305	8-719-918-76	LED GL-3PR9 (OPR/BATT)	
*	A-3261-215-A	MAIN BOARD, COMPLETE	
		**********	
BPF1	1-236-895-11	FILTER, BAND PASS	
		< CAPACITOR >	
C1	1-162-207-31	CERAMIC 22PF 5% 50V	
C2	1-162-207-31	CERAMIC 22PF 5% 50V	
C3	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C4	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C5	1-162-207-31	CERAMIC 22PF 5% 50V	
C6	1-162-194-31	CERAMIC 3.9PF 10% 50V	
C7	1-161-377-00	CERAMIC 0.0047uF 30% 16V	
C8	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C9	1-162-206-31	CERAMIC 20PF 5% 50V	
C10	1-102-958-00	CERAMIC 20PF 5% 50V	
C11	1-162-193-31	CERAMIC 3.3PF 10% 50V	
C12	1-124-902-00	ELECT 0.47uF 20% 50V	
C13	1-162-290-31	CERAMIC 470PF 10% 50V	
C15	1-161-494-00	CERAMIC 0.022uF 25V	
C16	1-124-126-00	ELECT 47uF 20% 10V	
C18	1-161-494-00	CERAMIC 0.022uF 25V	
C19	1-161-494-00	CERAMIC 0.022uF 25V	
C20	1-123-875-11	ELECT 10uF 20% 50V	
C21	1-123-382-00	ELECT 3.3uF 20% 100V	
C22	1-124-791-11	ELECT 1.0uF 20% 100V	

Ref.No.	Part No.	Description	Remark
C23	1-124-463-00	ELECT 0.1uF 20% 50V	
C24	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C25	1-124-443-00	ELECT 100uF 20% 10V	
C26	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C27	1-161-494-00	CERAMIC 0.022uF 25V	
C28	1-124-927-11	ELECT 4.7uF 20% 100V	
C29	1-161-494-00	CERAMIC 0.022uF 25V	
C30	1-124-927-11	ELECT 4.7uF 20% 100V	
C31	1-104-228-00	POLYSTYRENE 0.0015uF 5% 50V	
C32	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C33	1-123-382-00	ELECT 3.3uF 20% 100V	
C34	1-161-377-00	CERAMIC 0.0047uF 30% 16V	
C35	1-161-494-00	CERAMIC 0.022uF 25V	
C36	1-161-494-00	CERAMIC 0.022uF 25V	
C37	1-162-193-31	CERAMIC 3.3PF 10% 50V	
C101	1-162-292-31	CERAMIC 680PF 10% 50V	
C102	1-162-292-31	CERAMIC 680PF 10% 50V	
C104	1-162-292-31	CERAMIC 680PF 10% 50V	
C105	1-124-126-00	ELECT 47uF 20% 10V	
C106	1-130-484-00	MYLAR 0.012uF 5% 50V	
C107	1-124-927-11	ELECT 4.7uF 20% 100V	
C108	1-130-487-00	MYLAR 0.022uF 5% 50V	
C109	1-124-927-11	ELECT 4.7uF 20% 100V	
C110	1-162-286-31	CERAMIC 220PF 10% 50V	
C111	1-124-927-11	ELECT 4.7uF 20% 100V	
C113	1-124-126-00	ELECT 47uF 20% 10V	
C114	1-130-483-00	MYLAR 0.01uF 5% 50V	
C115	1-161-494-00	CERAMIC 0.022uF 25V	
C116	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C140	1-124-902-00	ELECT 0.47uF 20% 50V	
C141	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C142	1-162-286-31	CERAMIC 220PF 10% 50V	
C143	1-124-126-00	ELECT 47uF 20% 10V	
C144	1-124-443-00	ELECT 100uF 20% 10V	
C145	1-130-497-00	MYLAR 0.15uF 5% 50V	
C146	1-124-473-11	ELECT 1000uF 20% 10V	
C201	1-162-292-31	CERAMIC 680PF 10% 50V	
C202	1-162-292-31	CERAMIC 680PF 10% 50V	
C204	1-162-292-31	CERAMIC 680PF 10% 50V	
C205	1-124-126-00	ELECT 47uF 20% 10V	
C206	1-130-484-00	MYLAR 0.012uF 5% 50V	
C207	1-124-927-11	ELECT 4.7uF 20% 100V	
C208	1-130-487-00	MYLAR 0.022uF 5% 50V	
C209	1-124-927-11	ELECT 4.7uF 20% 100V	
C210	1-162-286-31	CERAMIC 220PF 10% 50V	
C211	1-124-927-11	ELECT 4.7uF 20% 100V	
C213	1-124-126-00	ELECT 47uF 20% 10V	
C214	1-130-483-00	MYLAR 0.01uF 5% 50V	
C215	1-161-494-00	CERAMIC 0.022uF 25V	

MAIN

Ref. No.	Part No.	Description		Remark
C216	1-162-294-31	CERAMIC	0.001uF 10% 50V	
C240	1-124-902-00	ELECT	0.47uF 20% 50V	
C241	1-162-294-31	CERAMIC	0.001uF 10% 50V	
C242	1-162-286-31	CERAMIC	220PF 10% 50V	
C243	1-124-126-00	ELECT	47uF 20% 10V	
C244	1-124-443-00	ELECT	100uF 20% 10V	
C245	1-130-497-00	MYLAR	0.15uF 5% 50V	
C246	1-124-473-11	ELECT	1000uF 20% 10V	
C301	1-124-463-00	ELECT	0.1uF 20% 50V	
C302	1-126-233-11	ELECT	22uF 20% 50V	
C303	1-124-902-00	ELECT	0.47uF 20% 50V	
C304	1-124-261-00	ELECT	10uF 20% 50V	
C305	1-124-126-00	ELECT	47uF 20% 10V	
C306	1-126-176-11	ELECT	220uF 20% 10V	
C307	1-124-443-00	ELECT	100uF 20% 10V	
C308	1-162-286-31	CERAMIC	220PF 10% 50V	
C309	1-162-290-31	CERAMIC	470PF 10% 50V	
C310	1-104-302-11	POLYSTYRENE	0.001uF 5% 50V	
C311	1-124-443-00	ELECT	100uF 20% 10V	
C312	1-130-485-00	MYLAR	0.015uF 5% 50V	
C313	1-161-377-00	CERAMIC	0.0047uF 30% 16V	
C314	1-130-487-00	MYLAR	0.022uF 5% 50V	
C315	1-124-925-11	ELECT	2.2uF 20% 100V	
C316	1-126-233-11	ELECT	22uF 20% 50V	
C317	1-124-927-11	ELECT	4.7uF 20% 100V	
C320	1-126-176-11	ELECT	220uF 20% 10V	
C321	1-124-119-00	ELECT	330uF 20% 16V	
C322	1-161-494-00	CERAMIC	0.022uF 25V	
C329	1-123-382-00	ELECT	3.3uF 20% 100V	
C340	1-124-120-11	ELECT	220uF 20% 25V	
C342	1-126-101-11	ELECT	100uF 20% 16V	
		< FILTER >		
CF1	1-579-079-11	FILTER, CERAMIC		
CF2	1-527-870-00	FILTER, CERAMIC		
		< CONNECTOR >		
CN1	* 1-580-046-11	CONNECTOR 2P		
CN2	* 1-580-044-11	WAFER, CONNECTOR 9P		
CN3	* 1-580-046-11	CONNECTOR 2P		
CN4	* 1-580-049-11	CONNECTOR 10P		
CN5	* 1-580-047-11	CONNECTOR 3P		
CN6	* 1-580-048-11	CONNECTOR 4P		

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D1	8-719-107-94	DIODE 1SS202-1	
D2	8-719-987-01	DIODE KDS2236	
D301	8-719-107-94	DIODE 1SS202-1	
D302	8-719-107-94	DIODE 1SS202-1	
D303	8-719-160-34	DIODE RD6.8FB2	
D304	8-719-989-16	DIODE 1S2472	
		< IC >	
IC1	8-759-204-01	IC TA7358P	
IC2	8-759-822-90	IC LA1805	
IC301	8-759-822-91	IC LA3246	
IC302	8-759-939-73	IC BA3308	
IC304	8-759-205-82	IC TA7282AP	
		< JACK >	
J101	1-580-045-11	JACK (SPEAKER L)	
J201	1-580-045-11	JACK (SPEAKER R)	
J501	1-580-052-11	JACK BOARD, PIN 2P (CD/LINE IN)	
		< COIL >	
L1	* 1-426-321-11	COIL, RF FM	
L2	1-406-393-11	COIL, FM OSC	
L3	1-402-508-11	ANTENNA, FERRITE-ROD (MW)	
L4	1-406-040-00	COIL (OSC)	
L101	1-412-457-11	INDUCTOR 2.7mH	
L201	1-412-457-11	INDUCTOR 2.7mH	
		< TRANSISTOR >	
Q1	8-729-900-61	TRANSISTOR DTA114ES	
Q101	8-729-900-80	TRANSISTOR DTC114ES	
Q102	8-729-201-05	TRANSISTOR 2SC2878-B	
Q201	8-729-900-80	TRANSISTOR DTC114ES	
Q202	8-729-201-05	TRANSISTOR 2SC2878-B	
Q301	8-729-900-80	TRANSISTOR DTC114ES	
Q302	8-729-900-80	TRANSISTOR DTC114ES	
Q303	8-729-100-13	TRANSISTOR 2SC2001-K2	
Q304	8-729-100-13	TRANSISTOR 2SC2001-K2	
Q305	1-807-940-11	TRANSISTOR KTC9013	
Q306	8-729-173-38	TRANSISTOR 2SA733-K	
Q307	8-729-904-39	TRANSISTOR DTC114TS	
Q308	8-729-904-39	TRANSISTOR DTC114TS	
Q310	8-729-900-61	TRANSISTOR DTA114ES	
Q311	8-729-900-61	TRANSISTOR DTA114ES	

MAIN

Ref. No.	Part No.	Description		Remark
		< RESISTOR >		
R1	1-249-405-11	CARBON	100 5% 1/4W	
R2	1-249-441-11	CARBON	100K 5% 1/4W	
R3	1-249-441-11	CARBON	100K 5% 1/4W	
R4	1-249-401-11	CARBON	47 5% 1/4W	
R5	1-249-426-11	CARBON	5.6K 5% 1/4W	
R6	1-249-422-11	CARBON	2.7K 5% 1/4W	
R7	1-247-713-11	CARBON	1K 5% 1/4W	
R8	1-247-719-11	CARBON	3.3K 5% 1/4W	
R9	1-247-719-11	CARBON	3.3K 5% 1/4W	
R10	1-249-440-11	CARBON	82K 5% 1/4W	
R11	1-249-404-00	CARBON	82 5% 1/4W	
R12	1-249-425-11	CARBON	4.7K 5% 1/4W	
R13	1-249-423-11	CARBON	3.3K 5% 1/4W	
R14	1-249-425-11	CARBON	4.7K 5% 1/4W	
R15	1-249-423-11	CARBON	3.3K 5% 1/4W	
R16	1-249-431-11	CARBON	15K 5% 1/4W	
R17	1-249-405-11	CARBON	100 5% 1/4W	
R18	1-247-700-11	CARBON	100 5% 1/4W	
R19	1-249-423-11	CARBON	3.3K 5% 1/4W	
R101	1-249-411-11	CARBON	330 5% 1/4W	
R102	1-249-429-11	CARBON	10K 5% 1/4W	
R103	1-249-422-11	CARBON	2.7K 5% 1/4W	
R104	1-247-887-00	CARBON	220K 5% 1/4W	
R105	1-249-436-11	CARBON	39K 5% 1/4W	
R106	1-247-717-11	CARBON	2.2k 5% 1/4W	
R107	1-249-422-11	CARBON	2.7K 5% 1/4W	
R109	1-249-437-11	CARBON	47K 5% 1/4W	
R110	1-249-420-11	CARBON	1.8K 5% 1/4W	
R112	1-249-432-11	CARBON	18K 5% 1/4W	
R113	1-249-430-11	CARBON	12K 5% 1/4W	
R114	1-249-438-11	CARBON	56K 5% 1/4W	
R115	1-249-413-11	CARBON	470 5% 1/4W	
R116	1-249-408-11	CARBON	180 5% 1/4W	
R117	1-249-430-11	CARBON	12K 5% 1/4W	
R141	1-249-401-11	CARBON	47 5% 1/4W	
R143	1-247-700-11	CARBON	100 5% 1/4W	
R144	1-249-421-11	CARBON	2.2K 5% 1/4W	
R201	1-249-411-11	CARBON	330 5% 1/4W	
R202	1-249-429-11	CARBON	10K 5% 1/4W	
R203	1-249-422-11	CARBON	2.7K 5% 1/4W	
R204	1-247-887-00	CARBON	220K 5% 1/4W	
R205	1-249-436-11	CARBON	39K 5% 1/4W	
R206	1-247-717-11	CARBON	2.2k 5% 1/4W	
R207	1-249-422-11	CARBON	2.7K 5% 1/4W	
R209	1-249-437-11	CARBON	47K 5% 1/4W	
R210	1-249-420-11	CARBON	1.8K 5% 1/4W	
R212	1-249-432-11	CARBON	18K 5% 1/4W	
R213	1-249-430-11	CARBON	12K 5% 1/4W	
R214	1-249-438-11	CARBON	56K 5% 1/4W	
R215	1-249-413-11	CARBON	470 5% 1/4W	
R216	1-249-408-11	CARBON	180 5% 1/4W	
R217	1-249-430-11	CARBON	12K 5% 1/4W	
R241	1-249-401-11	CARBON	47 5% 1/4W	
R243	1-247-700-11	CARBON	100 5% 1/4W	
R244	1-249-421-11	CARBON	2.2K 5% 1/4W	
R300	1-249-423-11	CARBON	3.3K 5% 1/4W	
R302	1-249-411-11	CARBON	330 5% 1/4W	
R303	1-249-423-11	CARBON	3.3K 5% 1/4W	
R304	1-249-410-11	CARBON	270 5% 1/4W	
R305	1-249-441-11	CARBON	100K 5% 1/4W	
R306	1-249-437-11	CARBON	47K 5% 1/4W	
R307	1-249-425-11	CARBON	4.7K 5% 1/4W	
R308	1-249-437-11	CARBON	47K 5% 1/4W	
R309	1-249-409-11	CARBON	220 5% 1/4W	
R310	1-259-377-11	CARBON	2.2M 5% 1/6W	
R311	1-249-409-11	CARBON	220 5% 1/4W	
R312	1-249-410-11	CARBON	270 5% 1/4W	
R313	1-249-429-11	CARBON	10K 5% 1/4W	
R314	1-249-393-11	CARBON	10 5% 1/4W	
R316	1-249-429-11	CARBON	10K 5% 1/4W	
R317	1-249-425-11	CARBON	4.7K 5% 1/4W	
R318	1-249-429-11	CARBON	10K 5% 1/4W	
R319	1-249-418-11	CARBON	1.2K 5% 1/4W	
R320	1-249-441-11	CARBON	100K 5% 1/4W	
R322	1-249-405-11	CARBON	100 5% 1/4W	
R323	1-249-423-11	CARBON	3.3K 5% 1/4W	
R324	1-247-698-11	CARBON	68 5% 1/4W	
R326	1-249-399-11	CARBON	33 5% 1/4W	
R327	⚠ 1-212-849-00	FUSIBLE	4.7 5% 1/4W	F
R328	1-249-414-11	CARBON	560 5% 1/4W	
R329	1-249-414-11	CARBON	560 5% 1/4W	
R330	1-249-409-11	CARBON	220 5% 1/4W	
R342	1-249-415-11	CARBON	680 5% 1/4W	
R343	1-249-432-11	CARBON	18K 5% 1/4W	
R344	1-249-426-11	CARBON	5.6K 5% 1/4W	
		< SWITCH >		
SW1	1-572-422-11	SWITCH, SLIDE	(BAND)	
SW2	1-572-419-11	SWITCH, SLIDE	(FUNCTION)	
SW3	1-572-420-11	SWITCH, SLIDE	(REC/PB)	
SW4	1-572-421-11	SWITCH, SLIDE	(ISS/FM MODE)	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN POWER

Ref. No.	Part No.	Description	Remark
		< TRANSFORMER >	
T1	1-404-741-11	TRANSFORMER	
T2	1-404-925-11	IFT, AM	
T3	1-424-400-11	COIL, FM DET	
T7	1-406-238-11	COIL, OSCILLATION	
VC1	1-151-674-11	CAP, VAR, POLYETHYLENE (FC1-FC4)	
		< VARIABLE RESISTOR >	
VR1	1-228-994-00	RES, ADJ, METAL 10K (VCO)	
VR301	1-228-989-00	RES, ADJ, METAL 470 (NORMAL SPEED)	
VR302	1-228-991-00	RES, ADJ, METAL 2.2K (HIGH SPEED)	
**********			
*	1-635-744-11	POWER BOARD	
		**********	
		< CAPACITOR >	
C401	1-124-887-00	ELECT 3300uF 20% 16V	
C402	1-161-494-00	CERAMIC 0.022uF 25V	
C403	1-161-494-00	CERAMIC 0.022uF 25V	
C404	1-161-494-00	CERAMIC 0.022uF 25V	
C405	1-161-494-00	CERAMIC 0.022uF 25V	
		< CONNECTOR >	
CN7	* 1-580-046-11	CONNECTOR 2P	
		< DIODE >	
D401	8-719-200-02	DIODE 10E2	
D402	8-719-200-02	DIODE 10E2	
D403	8-719-200-02	DIODE 10E2	
D404	8-719-200-02	DIODE 10E2	
		< JACK >	
J401	⚠ 1-540-141-11	SOCKET, AC (~AC IN)	
		< TRANSFORMER >	
T401	⚠ 1-448-781-11	TRANSFORMER, POWER	
**********			

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
36	1-575-951-11	CORD, SPEAKER	
ANT1	1-501-482-11	ANTENNA, TELESCOPIC	
HE101	1-543-533-11	HEAD, ERASE	
HP101	1-543-727-11	HEAD (PLAYBACK)	
HRP101	1-543-727-11	HEAD (RECORD/PLAYBACK)	
M101	3-393-882-01	MOTOR ASSY	
SL101	1-571-555-11	SWITCH, LEAF (DECK-A PB)	
SL102	1-570-715-11	SWITCH, LEAF (DECK-A FF/REW)	
SL201	1-571-555-11	SWITCH, LEAF (DECK-B PB/REC)	
SL202	1-570-715-11	SWITCH, LEAF (DECK-B FF/REW)	
SP101	1-503-492-11	SPEAKER	
SP201	1-503-492-11	SPEAKER	
T401	⚠ 1-448-781-01	TRANSFORMER, POWER	
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		ACCESSORY & PACKING MATERIAL	
	⚠ 1-557-287-11	CORD, POWER	
	* 3-324-066-01	SHEET, PROTECTION	
	* 3-357-567-01	INDIVIDUAL CARTON	
	* 3-397-807-01	CUSHION	
	3-751-942-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-751-942-31	MANUAL, INSTRUCTION (FRENCH) ···(Canadian)	
	3-751-942-51	MANUAL, INSTRUCTION (SPANISH) ···(E)	
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HARDWARE LIST

#1	7-685-646-79	SCREW, TAPPING
#2	7-685-651-79	SCREW +BVTP 3X20 TYPE2
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#4	7-621-775-40	SCREW +B 2.6X8
#5	7-621-255-25	SCREW +PTT 2X4 (S)
#6	7-685-152-19	SCREW +P 3X25 TYPE2 NON-SLIT
#7	7-682-549-04	SCREW +B 3X10
#8	7-682-546-04	SCREW +PTT 3X5 (S)
#9	7-621-255-15	SCREW +P 2X3
#10	7-621-255-55	SCREW, TOTSU P 2X8
#11	7-685-856-01	SCREW +BVTT 2X12 (S)
#12	7-685-133-19	SCREW +P 2.6X6 TYPE1
#13	7-621-770-26	SCREW, TOTSU PTTWH 2.6X6
#14	7-621-770-87	SCREW +PTT 2.6X5 (S)
#15	7-624-106-04	STOP RING 3.0, TYPE-E
#16	7-624-190-11	STOP RING 3, TYPE-CS

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-955-958-11

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General Audio Group

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